



TTI ENVIRONMENTAL, INC.
 Consulting & Contracting

1253 North Church Street, Moorestown, NJ 08057
 www.ttienv.com o 856-840-8800 f 856-840-8815

January 12, 2018

Via email

Dr. Cheryl Stevenson, Ed.D.
 Acting Superintendent
 Pinelands Regional School District
 520 Nugentown Road
 Little Egg Harbor, New Jersey 08087

RE: Asbestos Air Monitoring
 Pinelands Regional High School and Rainbow Express/ANNEX
 TTI Project No. 17-1224

Dear Dr. Stevenson:

In response to your request, TTI Environmental, Inc. (TTI) performed asbestos air sampling at the above referenced locations on January 9 - 11, 2018. The air samples were collected as a result of a roofing project that may have potentially contaminated the indoor space. Air samples were collected throughout both buildings to verify asbestos concentrations. All air sampling was performed by a New Jersey Licensed Asbestos Safety Technician who conducted the sampling using aggressive methods (fans/leaf blowers) to agitate any settled fibers. Samples were analyzed via Transmission Electron Microscopy (TEM) method. The following project summary details events, applicable test results and observations.

ASBESTOS AIR SAMPLING				
DATE	EVENT	LOCATION	ASBESTOS STRUCTURES	TESTING RESULT
1/9/18	Asbestos TEM Air Sampling	Classroom 318 (Center)	None Detected	<16.0 s/mm ² by TEM
		Classroom 305 (Center)	None Detected	<16.0 s/mm ² by TEM
		3 rd Floor Hall between Men/Women's Restrooms	None Detected	<16.0 s/mm ² by TEM
		Classroom 234 (Center)	None Detected	<16.0 s/mm ² by TEM
		Classroom 220 (Center)	None Detected	<16.0 s/mm ² by TEM
		2 nd Floor Hall at Room 246	None Detected	<16.0 s/mm ² by TEM
		Classroom 265 (Center)	None Detected	<16.0 s/mm ² by TEM
1/10/18	Asbestos TEM Air Sampling	Room 171 Main Office Area (Center)	None Detected	<16.0 s/mm ² by TEM
		Room 175 (Center)	None Detected	<16.0 s/mm ² by TEM
		Room 176 (Center)	None Detected	<16.0 s/mm ² by TEM
		Room 177/178 (Center)	None Detected	<16.0 s/mm ² by TEM
		Room 166 (Center)	None Detected	<16.0 s/mm ² by TEM
		Hallway at Room 179	None Detected	<16.0 s/mm ² by TEM
		Room 164 (Center)	None Detected	<16.0 s/mm ² by TEM
		Room 179 (Center)	None Detected	<16.0 s/mm ² by TEM
		Room 180 (Center)	None Detected	<16.0 s/mm ² by TEM
		Hallway at Room 165-Auditorium	None Detected	<16.0 s/mm ² by TEM
		Room 163 (Center)	None Detected	<16.0 s/mm ² by TEM
		Room 162 (Center)	None Detected	<16.0 s/mm ² by TEM

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Providing Environmental Solutions Nationwide



ASBESTOS AIR SAMPLING				
DATE	EVENT	LOCATION	ASBESTOS STRUCTURES	TESTING RESULT
		Room 161 (Center)	None Detected	<16.0 s/mm ² by TEM
		ANNEX Bldg/Rainbow Express	None Detected	<19.0 s/mm ² by TEM
		Room 01 (Center of Room)	None Detected	<19.0 s/mm ² by TEM
		ANNEX Bldg Tech Lab Room 02	None Detected	<19.0 s/mm ² by TEM
		(Center of Room)	None Detected	<16.0 s/mm ² by TEM
		ANNEX Bldg Tech Lab Room 03	None Detected	<16.0 s/mm ² by TEM
		Main Entrance Lobby by Auditorium Doors	None Detected	<16.0 s/mm ² by TEM
1/11/18	Asbestos TEM Air Sampling	Atrium (Center)	None Detected	<16.0 s/mm ² by TEM
		Media Center-Lower Level (Center)	None Detected	<16.0 s/mm ² by TEM
		Gymnasium (Center)	None Detected	<16.0 s/mm ² by TEM
		Senior Locker Area	None Detected	<16.0 s/mm ² by TEM
		Room 114A (Center)	None Detected	<16.0 s/mm ² by TEM
		Room 119 (Center)	None Detected	<16.0 s/mm ² by TEM
		Room 149 (Center)	None Detected	<16.0 s/mm ² by TEM
		Hallway at Room 207	None Detected	<16.0 s/mm ² by TEM
s/mm ² = structures per millimeter squared; TEM = Transmission Electron Microscopy. AHERA/NJDCA Clearance Standard - < 70 structures/millimeter ² . (s/mm ²) by TEM				

A total of thirty-four (34) samples were collected from the Pinelands Regional High School and Rainbow Express/ANNEX building on the dates of January 9 - 11, 2018. Of the thirty-four (34) samples collected, all thirty-four (34) were non-detected for asbestos fibers. The laboratory analytical reports are attached to this report. All asbestos air samples were below the Federal Asbestos Hazard Emergency Response Act (AHERA) and New Jersey Department of Community Affairs (NJCA) asbestos abatement final clearance air sampling limit for re-occupancy of < 70 structures per millimeter by Transmission Electron Microscopy (TEM).

If you should have any questions or require additional information, please feel free to contact me at any time.

Sincerely,

TTI ENVIRONMENTAL, INC.

James A. Guilardi
 Senior Project Manager

JG/lg

Attachment: Asbestos Air Sampling Analysis Results



ATTACHMENT: ASBESTOS AIR SAMPLING ANALYSIS RESULTS



1253 North Church Street, Moorestown, NJ 08057
856-840-8800 Fax 856-840-8815

041800725

SAMPLING DATA AND CHAIN OF CUSTODY RECORD

PCM **TEM** (Circle One) PRES DURINGS POST

PROJECT #: 17-1224		CLIENT: <i>Irland Regional P.D.E.</i>		TTI PROJECT MANAGER: <input checked="" type="checkbox"/> Guillard <input type="checkbox"/> Stocku <input type="checkbox"/> Seaman								
SAMPLER(S): <i>17-1224</i>		CLIENT CONTACT:		FACILITY: <i>Irland High School</i>				SAMPLING DATE: <i>TUES 1-9-18</i>				
SAMPLE #	PUMP #	SAMPLE LOCATION	TIMES			FLOW RATE			TOTAL VOLUME	FIBER COUNT (fibers/field)	FIBER DENSITY (1/mm ³)	FIBER CONCENTRATION (fibers/cc)
			START	STOP	TOTAL	INITIAL	FINAL	AVERAGE				
01	54	CLASSROOM # 318 (Center)	1:45	3:46	121	10	10	10	1210			
02	59	CLASSROOM # 305	1:51	3:52	121	10	10	10	1210			
03	70	3rd floor hall between men's room & R	1:57	3:59	122	10	10	10	1220			
04	004	CLASSROOM # 294 (Center)	2:12	4:12	120	10	10	10	1200			
05	51	CLASSROOM # 220	2:20	4:21	121	10	10	10	1210			
06	57	2nd floor hall at Gm # 246	2:28	4:28	120	10	10	10	1200			
07	67	CLASSROOM # 265 (Center)	2:39	4:51	120	10	10	10	1200			
08	-	BLANK	-	-	-	-	-	-	-			
09	-	BLANK	-	-	-	-	-	-	-			

RECEIVED
 EMSL
 CHINA TOWNSHIP, N.J.
 2018 JAN 11 A 9:33

Relinquished by: (Signature)	Date: 1-11-18	Time:	Received by: (Signature)	Date: 1-12-18	Time: 8:00am
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Analyst: (Signature)	Date:	Time:	Rotameter #: 3	PO #: 024281	(22)
			Filter Manufacturer: zefon	Turn Around Time: 6 hr	
			Lot #: 47257	FOR TEM ANALYSIS ONLY DO NOT ANALYZE BLANKS	

Page 1 of 2

OrderID: 041800725

pg 1/2



1253 North Church Street, Moorestown, NJ 08057
856-840-8800 Fax 856-840-8816

041800725

Order ID: 041800725

SAMPLING DATA AND CHAIN OF CUSTODY RECORD

PCM TEM (Circle One) PRES DURINGS POST

PROJECT #:		CLIENT:		FACILITY:		TTI PROJECT MANAGER:		SAMPLING DATE:				
17-1224		Pinelands Regional BOE		Pinelands Regional High School		A Guillard		1-10-18				
SAMPLER(S):		CLIENT CONTACT:		FACILITY:		SAMPLING DATE:						
A Culliton												
SAMPLE #	PUMP #	SAMPLE LOCATION	TIMES			FLOW RATE			TOTAL VOLUME	FIBER COUNT (fibers/field)	FIBER DENSITY (f/mm ²)	FIBER CONCENTRATION (fibers/cc)
			START	STOP	TOTAL	INITIAL	FINAL	AVERAGE				
10	608	Room 171 Main Office Area (center)	12:24	14:24	120	10	10	10	1200			
11	804	Room 175 (center)	12:31	14:31	120	10	10	10	1200			
12	54	Room 176 (center)	12:35	14:35	120	10	10	10	1200			
13	H25	Room 177/178 (center)	12:41	14:41	120	10	10	10	1200			
14	71	Room 166 (center)	12:49	14:53	124	10	10	10	1240			
15	H24	Hallway at Room 179	12:55	14:57	122	10	10	10	1220			
16	67	Room 164 (center)	13:05	15:05	120	10	10	10	1200			
17	19	Room 179 (center)	13:06	15:10	124	10	10	10	1240			
18	56	Room 180 (center)	13:10	15:13	123	10	10	10	1230			
19	H29	Hallway at Room 165-Auditorium	13:14	15:11	122	10	10	10	1220			
20	71	Room 163 (center)	15:18	17:18	120	10	10	10	1200			
21	H24	Room 162 (center)	15:20	17:20	120	10	10	10	1200			
22	19	Room 161 (center)	15:23	17:23	120	10	10	10	1200			

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 ENHSL
 CINCINNATI, NJ
 1 2018 JAN 11 A 8:33

Relinquished by: (Signature)	Date: 1-11-18	Time:	Received by: (Signature)	Date:	Time:	Comments: e-mail all results and COC to: lh-lab@ttlenv.com
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:	
Analyst: (Signature)	Date:	Time:	Rotameter #: 3	PO # 024281	Turn Around Time: 6 hr	
			Filter Manufacturer: Zefon	FOR TEM ANALYSIS ONLY. DO NOT ANALYZE BLANKS		
			Lot #: 47257			



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 /
http://www.EMSL.com / cinnaslab@EMSL.com

EMSL Order: 041800725
Customer ID: TTIE54
Customer PO: 024281
Project ID:

Attention: Jim Guilardi
TTI Environmental Inc.
1253 North Church Street
Moorestown, NJ 08057

Phone: (856) 840-8800
Fax: (856) 840-8815
Received Date: 01/11/2018 08:30 AM
Analysis Date: 01/11/2018 - 01/12/2018
Collected Date: 01/09/2018

Project: 17-1224 / Pinelands Regional B.O.E. / Vineland High School

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
01 041800725-0001	Classroom #318 (Center)	1210.00	0.0645	0	None Detected	0	0	0.0049	<16.00	<0.0049
02 041800725-0002	Classroom #305 (Center)	1210.00	0.0645	0	None Detected	0	0	0.0049	<16.00	<0.0049
03 041800725-0003	3rd Floor Hall between Men's RR	1220.00	0.0645	0	None Detected	0	0	0.0049	<16.00	<0.0049
04 041800725-0004	Classroom #234 (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
05 041800725-0005	Classroom #220	1210.00	0.0645	0	None Detected	0	0	0.0049	<16.00	<0.0049
06 041800725-0006	2nd Floor Hall @ Room #246	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
07 041800725-0007	Classroom #265 (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
10 041800725-0008	Room 171 Main Office Area (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
11 041800725-0009	Room 175 (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
12 041800725-0010	Room 176 (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
13 041800725-0011	Room 177 & 178 (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
14 041800725-0012	Room 166 (Center)	1240.00	0.0645	0	None Detected	0	0	0.0048	<16.00	<0.0048
15 041800725-0013	Hallway @ Room 179	1220.00	0.0645	0	None Detected	0	0	0.0049	<16.00	<0.0049
16 041800725-0014	Room 164 (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
17 041800725-0015	Room 179 (Center)	1240.00	0.0645	0	None Detected	0	0	0.0048	<16.00	<0.0048
18 041800725-0016	Room 180 (Center)	1230.00	0.0645	0	None Detected	0	0	0.0049	<16.00	<0.0049
19 041800725-0017	Hallway @ Room 165 - Auditorium	1220.00	0.0645	0	None Detected	0	0	0.0049	<16.00	<0.0049
20 041800725-0018	Room 163 (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
21 041800725-0019	Room 162 (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
22	Room 161 (Center)	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050

Report amended: 01/12/2018 12:07 PM Replaces amended report from: 01/11/2018 13:21 PM Reason Code: DataEntry-Other (see report comment)



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Tel/Fax: (800) 220-3675 /
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EMSL Order: 041800725
Customer ID: TTIE54
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Received Date: 01/11/2018 08:30 AM
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Collected Date: 01/09/2018

Project: 17-1224 / Pinelands Regional B.O.E. / Vineland High School

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
041800725-0020										

Analyst(s)

Sandy Burany, Ph.D (10)
Matthew Dare (5)
Ted Young (5)

Benjamin Ellis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Report amended: 01/12/2018 12:07 PM Replaces amended report from: 01/11/2018 13:21 PM Reason Code: DataEntry-Other (see report comment)

Order ID: 041800837

PO # 024281 6 hr TAT

041600837



1253 North Church Street, Moorestown, NJ 08057
856-840-8800 Fax 856-840-8816

SAMPLING DATA AND CHAIN OF CUSTODY RECORD

PCM **TEM** (Circle One) PRES DURINGS POST

PROJECT #: 17-1224		CLIENT: Pinelands Regional BOE				TTI PROJECT MANAGER: <input checked="" type="checkbox"/> Gullardi <input type="checkbox"/> Stocku						
SAMPLER(S): A. Culliton K. Smith C. Sims		CLIENT CONTACT:				FACILITY: Pinelands Regional High School				SAMPLING DATE: 1-11-18		
SAMPLE #	PUMP #	SAMPLE LOCATION	TIMES			FLOW RATE			TOTAL VOLUME	FIBER COUNT (fibers/field)	FIBER DENSITY (1/um ³)	FIBER CONCENTRATION (fibers/cc)
			START	STOP	TOTAL	INITIAL	FINAL	AVERAGE				
23	H16	ANNEX BIDA ROOM 01 RAINBOW EXPRESS (CTR OF RM)	10:45	13:42	177	10	10	10	1770			
24	25	ANNEX BIDA ROOM 02 TECH LAB (CTR OF RM)	10:52	13:46	174	10	10	10	1740			
25	H10	ANNEX BIDA ROOM 03 TECH LAB (CTR OF RM)	10:58	13:49	171	10	10	10	1710			
26	H24	Auditorium by Stage (center)	10:40	12:51	131	10	10	10	1310			
27	H25	Cafeteria (center)	10:45	12:53	128	10	10	10	1280			
28	19	Main Entrance Lobby by Auditorium Doors	10:55	12:55	120	10	10	10	1200			
29	2	Atrium (center)	11:01	13:01	120	10	10	10	1200			
30	71	Media Center - Lower level (center)	11:08	13:08	120	10	10	10	1200			
31	54	Gymnasium (center)	11:15	13:15	120	10	10	10	1200			
32	H16	Senior Locker Area	11:20	13:20	120	10	10	10	1200			
33	004	Room 114A (center)	11:25	13:25	120	10	10	10	1200			
34	07	Room 119 (center)	11:38	13:38	120	10	10	10	1200			
35	72	Room 149 (center)	11:41	13:42	121	10	10	10	1210			
36	H23	Hallway at Room 207	11:55	13:55	120	10	10	10	1200			
Relinquished by: (Signature)		Date: 1-11-18	Time: 4:33 PM	Received by: (Signature)		Date: 1-11-18	Time: 4:30 PM	Comments: e-mail all results and COC to: ih-lab@ttlenv.com				
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:					
Analyst: (Signature)		Date:	Time:	Rotameter #: 3		PO # 024281		Turn Around Time: 6 hr FOR TEM ANALYSIS ONLY: DO NOT ANALYZE BLANKS				
				Filter Manufacturer: Zefon								
				Lot #: 47257								

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Project: 17-1224 / Pinelands Regional BOE / Pinelands Regional High School

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Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ < 5μ	≥5μ		(S/mm ²)	(S/cc)
23	Annex Bldg Room 01 Rainbow Express - CTR of Rm	1770.00	0.0516	0	None Detected	0	0	0.0042	<19.00	<0.0042
041800837-0001										
24	Annex Bldg Room 02 Rainbow Express - CTR of Rm	1740.00	0.0516	0	None Detected	0	0	0.0043	<19.00	<0.0043
041800837-0002										
25	Annex Bldg Room 03 Rainbow Express - CTR of Rm	1710.00	0.0516	0	None Detected	0	0	0.0044	<19.00	<0.0044
041800837-0003										
26	Auditorium by Stage - Center	1310.00	0.0645	0	None Detected	0	0	0.0046	<16.00	<0.0046
041800837-0004										
27	Cafeteria- Center	1280.00	0.0645	0	None Detected	0	0	0.0047	<16.00	<0.0047
041800837-0005										
28	Main Entrance Lobby by Auditorium Doors	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
041800837-0006										
29	Atrium - Center	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
041800837-0007										
30	Media Center - Lower Level - Center	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
041800837-0008										
31	Gymnasium - Center	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
041800837-0009										
32	Senior Locker Area	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
041800837-0010										
33	Room 114A - Center	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
041800837-0011										
34	Room 119 - Center	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
041800837-0012										
35	Room 149 - Center	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
041800837-0013										
36	Hallway at Room 207	1200.00	0.0645	0	None Detected	0	0	0.0050	<16.00	<0.0050
041800837-0014										

Initial report from: 01/11/2018 20:00 PM



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http://www.EMSL.com / cinnaslab@EMSL.com

EMSL Order: 041800837
Customer ID: TTIE54
Customer PO: 024281
Project ID:

Attention: Jim Guilardi
TTI Environmental Inc.
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Phone: (856) 840-8800
Fax: (856) 840-8815
Received Date: 01/11/2018 16:30 PM
Analysis Date: 01/11/2018
Collected Date: 01/11/2018

Project: 17-1224 / Pinelands Regional BOE / Pinelands Regional High School

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm ²)	Non Asb	Asbestos Type(s)	#Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥0.5μ	< 5μ		≥5μ	(S/mm ²)

Analyst(s)

- Debbie Little (5)
- Wayne Froehlich (5)
- Patrick Carr (4)

Benjamin Ellis, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 01/11/2018 20:00 PM